Attorney Docket No.: 08215-550001 Client Ref. No.: CHM-026894

WHAT IS CLAIMED IS:

- 1. A system for sealing electrical conduits and conductors, the system comprising:
- a chamber configured for attachment to a conduit through which at least one
- 3 conductor runs such that the at least one conductor also runs through the chamber;
- a port that permits access to the chamber to inject a sealing compound into the chamber; and
- a vent that permits access to a portion of the conductor located between portions of the conductor that are surrounded by the sealing compound after the sealing compound is
- 8 injected into the chamber.
- 1 2. The system of claim 1 wherein a pressure gauge that monitors the pressure within the chamber is attached to the vent.
- The system of claim 1 wherein a pressure gauge that monitors the pressure within the
 chamber is placed inside the vent.
- 1 4. The system of claim 1 wherein the vent is blocked with a plug.
- 5. The system of claim 1 wherein an explosion-proof drain that vents vapors from within the chamber is attached to the vent.
- 1 6. The system of claim 1 wherein the chamber includes a base and a cover that is threaded to screw onto the base.
- 1 7. The system of claim 6 wherein the port is located in the cover.
- 1 8. The system of claim 1 wherein the vent includes a tube that separates the portions of the conductor that are surrounded by sealing compound from the portion of the conductor accessible through the vent.
- 9. The system of claim 8 wherein the at least one conductor runs perpendicularly across the tube.

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1 10. The system of claim 8 wherein the tube includes two interlocking halves between which 2 the at least one conductor is placed.

- 1 11. The system of claim 8 wherein the tube is made of plastic.
- 1 12. The system of claim 1 wherein the sealing compound is a two-part mixture that expands 2 after mixing and injection into the chamber.
- 1 13. A method for sealing electrical conduits and conductors, the method comprising:
- attaching a chamber to a conduit to be sealed, the conduit including at least one
- 3 conductor running through it;
- 4 mounting a tube that opens to the outside of the chamber within the chamber;
- threading the at least one conductor though the chamber and through the tube;
- 6 covering the chamber with a cover; and
- 7 putting a sealing compound in the chamber.
- 14. The method of claim 13 further comprising placing a plug over an end of the tube on the outside of the chamber.
- 1 15. The method of claim 13 further comprising attaching a pressure gauge to an end of the tube on the outside of the chamber.
- 16. The method of claim 13 further comprising inserting a pressure gauge into the tube and placing a plug over an end of the tube on the outside of the chamber.
- 1 17. The method of claim 13 wherein the sealing compound fills the chamber and forms an explosion-proof seal in the chamber.
- 18. The method of claim 13 wherein mounting the tube in the chamber comprises:
- 2 mounting a bottom half of the tube in the chamber;
- passing the at least one conductor across the bottom half of the tube; and

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4 mounting a top half of the tube in the chamber over the at least one conductor and the

- 5 bottom half of the tube.
- 19. The method of claim 13 wherein covering the chamber with the cover comprises
 screwing the cover onto the chamber.
- 1 20. The method of claim 13 wherein putting the sealing compound in the chamber comprises
- 2 injecting the sealing compound into the chamber through a nozzle in the cover;
- 3 placing a plug over the nozzle; and
- allowing the sealing compound to expand and harden.